BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Estimate Cost Rs. 1500000.00

Name of Work: Estimate for Maintenance of BBMP Drilled Borewells and Providing Pipelines and Gate Valves in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	A) Rewinding								
1	Lifting of Submersible pump set as per Soecification and direction **(P. 56 / I. 10.3.21) PRED SR (2012-13)**	Each	32				**32**	850.00	**27200.00**
2	Transportation of pumping machineries **(P. 56 / I. 10.3.19) PRED SR (2012-13)**	Each	32				**32**	900.00	**28800.00**
3	Labour charges (over hauling) **P. No. 56 / I No.10.3.22 PRED SR (2012-13)**	Job	32				**32**	550.00	**17600.00**
4	**A) Repairs to Motor:** Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months. **PRED SR (2012-13) P No. 54 / I. No. 10.1) (Above 10 HP upto 20 HP add Rs.150/- for every ½ HP)**								
	A) 10 HP Motor	No.	10				**10**	3700.00	**37000.00**
	upto 5 HP 2500.00								
	for 10 HP (120 x 10) 1200.00								
	Total 3700.00								
	B) 12.5 HP Motor		22				**22**	4750.00	**104500.00**
	upto 5 HP 2500.00								
	for 12.5 HP (150 x 15) 2250.00								
	Total 4750.00								
	B) Replacement of Motor Parts:								
5	Starter (with one year Guarantee) **P No. 55 / I No. 10.3.3 PRED SR (2012-13)**	No.	32				**32**	5050.00	**161600.00**
6	Rotor (with one year Guarantee) **P No. 55 / I No. 10.3.6) PRED SR (2012-13)**	No.	32				**32**	4700.00	**150400.00**
7	Upper Flange **P. No. 56 / I No. 10.3.7 PRED SR (2012-13)**	No.	32				**32**	350.00	**11200.00**
8	Lower Housing **P. No. 56 / I No. 10.3.10 PRED SR (2012-13)**	No.	32				**32**	650.00	**20800.00**
9	Carbon Housing **P. No. 56 / I No.10.3.12 PRED SR (2012-13)**	No.	32				**32**	475.00	**15200.00**
10	Thrust bearing block assembly complete with Segment bearing pad.**P. No. 55 / I No.10.3.13 PRED SR (2012-13)**	No.	32				**32**	1150.00	**36800.00**
	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement.								
11	Oil Seal **P. No. 54 / I No.10.2.3 PRED SR (2012-13)**	No.	32				**32**	125.00	**4000.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
12	Oil Seal Steel Bush **P. No. 54 / I No. 10.2.4 PRED SR (2012-13)**	No.	32				**32**	150.00	**4800.00**
13	Guide vane **P. No. 54 / I No. 10.2.5 PRED SR (2012-13)**	No.	480				**480**	175.00	**84000.00**
14	Impeller Shell moulded with aluminium Bronze) **P. No. 54 / I No. 10.2.6 PRED SR (2012-13)**	No.	480				**480**	425.00	**204000.00**
15	Discharge outlet (D.O) Bearing D.O Steel Bush **P. No. 55 / I No. 10.2.7 PRED SR (2012-13)**	No.	32				**32**	445.00	**14240.00**
16	Steel Bush **P. No.55 / I No. 10.2.9 PRED SR (2012-13)**	No.	32				**32**	150.00	**4800.00**
17	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **P. No. 55 / I No. 10.2.11 PRED SR (2012-13)**	No.	32				**32**	950.00	**30400.00**
18	Non – return valve (NRV) assembly complete with rubber 'O' Ring **P. No. 55 / I No. 10.2.14 PRED SR (2012-13)**	No.	32				**32**	1350.00	**43200.00**
19	Cable Guard **P. No. 55 / I No. 10.2.15 PRED SR (2012-13)**	No.	32				**32**	150.00	**4800.00**
20	Brass Filter **P. No. 55 / I No. 10.2.17 PRED SR (2012-13)**	No.	32				**32**	250.00	**8000.00**
21	Re-erection charges of pumping machineries including overhauling and pointing **P. No. 56 / I No. 10.3.20 PRED SR (2012-13)**	Each	32				**32**	950.00	**30400.00**
	D) General Items								
22	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008	Rmtr							
			1	85.00			**85.00**	375.00	**31875.00**
23	Heavy Duty Collar 50 mm dia	Nos	35				**35**	130.00	**4550.00**
24	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of **GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 6 Sqm mm KPWD Electrical SR 2014-15**	Mtr							
			1	300.00			**300.00**	188.70	**56610.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
25	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A **P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15**	Mtr							
			1	45.00			**45.00**	140.40	**6318.00**
26	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. **P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**	Mtr							
			1	45.00			**45.00**	10.80	**486.00**
27	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) **P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15**	Mtr							
	For Cutting Road Surface		1	35.00			**35.00**	85.00	**2975.00**
28	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV **P. No. 62 / I No. 7.12.1 KPWD Electrical SR 2014-15**	Mtr							
	40mm dia GI pipe		3	4.00			**12.00**	345.00	**4140.00**
29	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 62 / I.No. 7.13.2 KPWD Electrical SR 2014-15**	No.							
	16Sqmm		5				**5.00**	280.00	**1400.00**
30	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.**P No. 44 / I No. 6.7.2 KPWD Electrical SR 2014-15**	No.							
	32 Amps		15x6				**90**	180.00	**16200.00**
31	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 **Page No. 90 Item No. 13.55 / PWD SR 2015-16**	Nos							
			6				**6**	1579.40	**9476.00**
	Basic Rate	1490.00							
	Area Weightage @ 6%	89.40							
	Total	**1579.40**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
32	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. **P. No. 92 / I. No. 13.81.3 PWD SR 2015-16**	No							
	50mm dia		5				**5**	227.90	**1140.00**
	Basic Rate	215.00							
	Area Weightage @ 6%	12.90							
	Total	**227.90**							
33	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete **P.No. 49, I. No. 6.40.2 KPWD Electrical SR 2014-15**	Sq.Cm							
	16SWG		2x2	120.00	60.00		28800.00		
			2	360.00	25.00		18000.00		
							46800.00	0.33	**15444.00**
34	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shtring and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. **Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil**	Cum							
			1	935.00	0.60	0.75	420.75	193.64	
							420.75	188.00	**79101.00**
	Basic Rate	188.00							
35	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.15 item No.3.4.2 b PRED SR 2012-13.**	Rmtr							
	75 mm dia 6 KSC PVC pipe		1	935.00			935.00	161.71	
							935.00	157.00	**146795.00**
36	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs **Page No. 3 / Item No. 1.6 / PRED SR 2012-13**	Cum						62.83	
			Qty. Vide Item No. 27				**420.75**	61.00	**25666.00**
	Basic Rate	61.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
37	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 **P. 88 / I.13.37 PWD SR - 2015-16**	Each							
			25				**25**	2120.00	**53000.00**
	Basic Rate	2000.00							
	Area Weightage @ 6%	120.00							
	Total	**2120.00**							
38	Miscellaneous and Unforeseen Charges	L/S							**1084.00**
								Total	**1500000.00**

(Rupees Fifteen Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.

2 This estimate is prepared as per C.S.R. of PWD 2015-16, PWD Elecrical 2015-15, PRED 2012-13 & SE-RDED approved Rate.

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

14/12/15

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

TECHNICAL SANCTION
Accorded For Rs. 1500000/-
Head of A/c. P-1771
Div. Ref. No. 250/15-16 Date. 14.12.15
AE
EE(BTP)
15/12

Administrative Approval
Accorded For 15.00 lakhs.
Head of A/C. P1771
CER NO : 44A : 14.12.15
TA
CE (YNK)